Anonymous genomic fragment co-amplified with c-Ki-ras 2 detects frequent polymorphism (pK42)

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SOURCE/DESCRIPTION: An anonymous 1.3kb Hind III/EcoRI fragment in pUC19, subcloned from a 7.5kb XbaI/EcoRI genomic clone. The fragment is co-amplified with c-Ki-ras 2 in DNA from a metastatic human lung carcinoma (Heighway and Hasleton, 1986).

POLYMORPHISM: Stu I identifies a simple two allele polymorphism with bands at either 2.5 or 8.7kb.

FREQUENCY: Studied in 35 unrelated Caucasians
- 2.5 kb allele 0.64
- 8.7 kb allele 0.36

NOT POLYMORPHIC FOR: EcoRI, XbaI, PvuII, Hind III, SalI, BstEII, Dral or PstI with a panel of 9 unrelated Caucasians.

CHROMOSOMAL LOCALISATION: The probe was assigned to chromosome 12 and localised to 12pter-12q14 using a panel of somatic cell hybrids (Heighway and Geurts van Kessel, unpublished results)

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in three informative families.

PROBE AVAILABILITY: On request (J.H.)


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